

INTERNATIONAL SEARCH REPORT

PCT/IB 03/04532

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B7/09 G11B7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 847 047 A (ALPS ELECTRIC CO LTD) 10 June 1998 (1998-06-10) the whole document	1-6
A	US 5 872 439 A (NOMURA MASARU) 16 February 1999 (1999-02-16) the whole document	1-6
A	US 6 259 663 B1 (TATEISHI KIYOSHI) 10 July 2001 (2001-07-10) the whole document	1-6
A	DE 100 48 920 A (BOSCH GMBH ROBERT) 11 April 2002 (2002-04-11) the whole document	1-6

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

9 February 2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WO 02 09102 A (WATANABE TAKAHIRO ;IMAMURA YASUSHI (JP); KOBAYASHI YUICHI (JP); MA) 31 January 2002 (2002-01-31) the whole document</p> <p>-----</p>	1-6

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			EP	0847047 A1	10-06-1998
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